

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/605,973A  
Source: IFW16  
Date Processed by STIC: 6/23/06

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 06/23/2006

PATENT APPLICATION: US/10/805,973A

TIME: 15:51:14

Input Set : A:\271274 - Revised Sequence Listing\_1.DOC

Output Set: N:\CRF4\06232006\J805973A.raw

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4 <110> APPLICANT: Zhao, Chengyan
5     Ascenzi, Robert
6     Singh, Bijay K.
9 <120> TITLE OF INVENTION: Methods and Compositions for Analyzing
10    AHASL Genes
13 <130> FILE REFERENCE: 038867/271254
15 <140> CURRENT APPLICATION NUMBER: 10/805,973A
16 <141> CURRENT FILING DATE: 2004-03-22
18 <160> NUMBER OF SEQ ID NOS: 27
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 21
24 <212> TYPE: DNA
25 <213> ORGANISM: Artificial Sequence
27 <220> FEATURE:
28 <223> OTHER INFORMATION: Primer CM-F
30 <400> SEQUENCE: 1
31 ccgccgcaat atgctatcca g                                21
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 21
35 <212> TYPE: DNA
36 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <223> OTHER INFORMATION: Primer CM-R
41 <400> SEQUENCE: 2
42 gtaggacaag aaacttgcat g                                21
44 <210> SEQ ID NO: 3
45 <211> LENGTH: 21
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Primer MU-F
52 <400> SEQUENCE: 3
53 cgtgctgcct atgatccgaa c                                21
55 <210> SEQ ID NO: 4
56 <211> LENGTH: 20
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Primer WT-F
63 <400> SEQUENCE: 4
64 gtgctgccta tgatccgaag                                20
66 <210> SEQ ID NO: 5

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## RAW SEQUENCE LISTING

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67 <211> LENGTH: 20
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Primer 1A,D-F
74 <400> SEQUENCE: 5
75 gggaggcgat cattgccact                                20
77 <210> SEQ ID NO: 6
78 <211> LENGTH: 20
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Primer 1B-F
85 <400> SEQUENCE: 6
86 ggcagtggct gtcttcaccc                                20
88 <210> SEQ ID NO: 7
89 <211> LENGTH: 24
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Primer 1D-R
96 <400> SEQUENCE: 7
97 gcacatccct acaaaagaga agat                            24
99 <210> SEQ ID NO: 8
100 <211> LENGTH: 24
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Primer 1B-R
107 <400> SEQUENCE: 8
108 cagtagttga tacaacacgc aggt                            24
110 <210> SEQ ID NO: 9
111 <211> LENGTH: 25
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Primer 1A-R
118 <400> SEQUENCE: 9
119 gacagcacat ccctacaaaa gatag                          25
121 <210> SEQ ID NO: 10
122 <211> LENGTH: 42
123 <212> TYPE: DNA
124 <213> ORGANISM: Triticum aestivum
126 <220> FEATURE:
127 <221> NAME/KEY: misc_feature
128 <222> LOCATION: (0)...(0)
129 <223> OTHER INFORMATION: Wild type AHASL1D
131 <221> NAME/KEY: CDS
132 <222> LOCATION: (1)...(42)

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W--&gt; 134 &lt;400&gt; 10

135 cac gtg ctg cct atg atc cca agc ggt ggt gct ttc aag gac 42

136 His Val Leu Pro Met Ile Pro Ser Gly Gly Ala Phe Lys Asp

137 1 5 10

141 &lt;210&gt; SEQ ID NO: 11

142 &lt;211&gt; LENGTH: 14

143 &lt;212&gt; TYPE: PRT

144 &lt;213&gt; ORGANISM: Triticum aestivum

146 &lt;400&gt; SEQUENCE: 11

147 His Val Leu Pro Met Ile Pro Ser Gly Gly Ala Phe Lys Asp

148 1 5 10

151 &lt;210&gt; SEQ ID NO: 12

152 &lt;211&gt; LENGTH: 42

153 &lt;212&gt; TYPE: DNA

154 &lt;213&gt; ORGANISM: Triticum aestivum

156 &lt;220&gt; FEATURE:

157 &lt;221&gt; NAME/KEY: misc\_feature

158 &lt;222&gt; LOCATION: (0)...(0)

159 &lt;223&gt; OTHER INFORMATION: Mutant AHASL1D

161 &lt;221&gt; NAME/KEY: CDS

162 &lt;222&gt; LOCATION: (1)...(42)

W--&gt; 164 &lt;400&gt; 12

165 cac gtg ctg cct atg atc cca aac ggt ggt gct ttc aag gac 42

166 His Val Leu Pro Met Ile Pro Asn Gly Gly Ala Phe Lys Asp

167 1 5 10

171 &lt;210&gt; SEQ ID NO: 13

172 &lt;211&gt; LENGTH: 14

173 &lt;212&gt; TYPE: PRT

174 &lt;213&gt; ORGANISM: Triticum aestivum

176 &lt;400&gt; SEQUENCE: 13

177 His Val Leu Pro Met Ile Pro Asn Gly Gly Ala Phe Lys Asp

178 1 5 10

181 &lt;210&gt; SEQ ID NO: 14

182 &lt;211&gt; LENGTH: 42

183 &lt;212&gt; TYPE: DNA

184 &lt;213&gt; ORGANISM: Triticum aestivum

186 &lt;220&gt; FEATURE:

187 &lt;221&gt; NAME/KEY: misc\_feature

188 &lt;222&gt; LOCATION: (0)...(0)

189 &lt;223&gt; OTHER INFORMATION: Wild type AHASL1B

191 &lt;221&gt; NAME/KEY: CDS

192 &lt;222&gt; LOCATION: (1)...(42)

W--&gt; 194 &lt;400&gt; 14

195 cac gtg ctg cct atg atc cca agc ggt ggt gct ttt aag gac 42

196 His Val Leu Pro Met Ile Pro Ser Gly Gly Ala Phe Lys Asp

197 1 5 10

201 &lt;210&gt; SEQ ID NO: 15

202 &lt;211&gt; LENGTH: 14

203 &lt;212&gt; TYPE: PRT

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Input Set : A:\271274 - Revised Sequence Listing\_1.DOC

Output Set: N:\CRF4\06232006\J805973A.raw

204 <213> ORGANISM: Triticum aestivum  
 206 <400> SEQUENCE: 15  
 207 His Val Leu Pro Met Ile Pro Ser Gly Gly Ala Phe Lys Asp  
 208 1 5 10

211 <210> SEQ ID NO: 16  
 212 <211> LENGTH: 42  
 213 <212> TYPE: DNA  
 214 <213> ORGANISM: Triticum aestivum  
 216 <220> FEATURE:  
 217 <221> NAME/KEY: misc\_feature  
 218 <222> LOCATION: (0)...(0)  
 219 <223> OTHER INFORMATION: Mutant AHASL1B  
 221 <221> NAME/KEY: CDS  
 222 <222> LOCATION: (1)...(42)

W--&gt; 224 &lt;400&gt; 16

225 cac gtg ctg cct atg atc cca aac ggt ggt gct ttt aag gac 42  
 226 His Val Leu Pro Met Ile Pro Asn Gly Gly Ala Phe Lys Asp  
 227 1 5 10

231 <210> SEQ ID NO: 17  
 232 <211> LENGTH: 14  
 233 <212> TYPE: PRT  
 234 <213> ORGANISM: Triticum aestivum  
 236 <400> SEQUENCE: 17  
 237 His Val Leu Pro Met Ile Pro Asn Gly Gly Ala Phe Lys Asp  
 238 1 5 10

241 <210> SEQ ID NO: 18  
 242 <211> LENGTH: 42  
 243 <212> TYPE: DNA  
 244 <213> ORGANISM: Triticum aestivum  
 246 <220> FEATURE:  
 247 <221> NAME/KEY: misc\_feature  
 248 <222> LOCATION: (0)...(0)  
 249 <223> OTHER INFORMATION: Wild type AHASL1A  
 251 <221> NAME/KEY: CDS  
 252 <222> LOCATION: (1)...(42)

W--&gt; 254 &lt;400&gt; 18

255 cac gtg ctg cct atg atc cca agc ggt ggt gct ttc aag gac 42  
 256 His Val Leu Pro Met Ile Pro Ser Gly Gly Ala Phe Lys Asp  
 257 1 5 10

261 <210> SEQ ID NO: 19  
 262 <211> LENGTH: 14  
 263 <212> TYPE: PRT  
 264 <213> ORGANISM: Triticum aestivum  
 266 <400> SEQUENCE: 19  
 267 His Val Leu Pro Met Ile Pro Ser Gly Gly Ala Phe Lys Asp  
 268 1 5 10  
 271 <210> SEQ ID NO: 20  
 272 <211> LENGTH: 42  
 273 <212> TYPE: DNA

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TIME: 15:51:14

Input Set : A:\271274 - Revised Sequence Listing\_1.DOC

Output Set: N:\CRF4\06232006\J805973A.raw

274 <213> ORGANISM: *Triticum aestivum*  
 276 <220> FEATURE:  
 277 <221> NAME/KEY: misc\_feature  
 278 <222> LOCATION: (0)...(0)  
 279 <223> OTHER INFORMATION: Mutant AHASL1A  
 281 <221> NAME/KEY: CDS  
 282 <222> LOCATION: (1)...(42)

W--&gt; 284 &lt;400&gt; 20

285 cac gtg ctg cct atg atc cca aac ggt ggt gct ttc aag gac 42  
 286 His Val Leu Pro Met Ile Pro Asn Gly Gly Ala Phe Lys Asp  
 287 1 5 10

291 &lt;210&gt; SEQ ID NO: 21

292 &lt;211&gt; LENGTH: 14

293 &lt;212&gt; TYPE: PRT

294 <213> ORGANISM: *Triticum aestivum*

296 &lt;400&gt; SEQUENCE: 21

297 His Val Leu Pro Met Ile Pro Asn Gly Gly Ala Phe Lys Asp  
 298 1 5 10

301 &lt;210&gt; SEQ ID NO: 22

302 &lt;211&gt; LENGTH: 983

303 &lt;212&gt; TYPE: DNA

304 <213> ORGANISM: *Triticum aestivum*

306 &lt;220&gt; FEATURE:

307 &lt;221&gt; NAME/KEY: misc\_feature

308 &lt;222&gt; LOCATION: (0)...(0)

309 &lt;223&gt; OTHER INFORMATION: AHASL1B

311 &lt;400&gt; SEQUENCE: 22

312 tttggtccat ggcacaagga gttggatcag cagaagaggg agtttcctct aggattcaag 60  
 313 acttttggtg aggccatccc gccgcaatat gctatccagg tactggatga gctgacaaaa 120  
 314 ggggaggcga tcattgccac cgggtgtggg cagcatcaga tgtgggcggc tcagtattac 180  
 315 acttacaagc ggccacggca gtggctgtct tcatccggtt tgggtgcaat gggatttggg 240  
 316 ttgccagctg cagctggcgc tgctgtggcc aaccacgggtg ttacagttgt tgacattgat 300  
 317 ggggatggta gtttcctcat gaacattcag gagttggcgt tgatccgtat tgagaacctc 360  
 318 ccagtgaagg tgatgatatt gaacaaccag catctgggaa tgggtggtgca gtgggaggat 420  
 319 aggttttaca aggccaaccg ggcgcacaca taccttggca acccagaaaa tgagagtga 480  
 320 atatatccag attttgtgac gattgcta aa ggattcaacg ttccggcagt tcgtgtgacg 540  
 321 aagaagagcg aagtcactgc agcaatcaag aagatgcttg agaccccagg gccatacttg 600  
 322 ttggatatca ttgtcccgca tcaggagcac gtgctgccta tgatcccaag cgggtggtgct 660  
 323 ttaaggaaca tgatcatgga ggggtgatggc aggacctcgt actgaaatct cgacctacaa 720  
 324 gacctacaag tgtgacatgc gcaatcagca tgatacctgc gtgttgtatc aactactggg 780  
 325 ggttcaactg tgaaccatgc gttttctagt ttgcttgttt cattcatata agcttgtgtt 840  
 326 acttagttcc gaaccgtgta gttttgtagt ctctgttctc tttttagagg aygtgtgtc 900  
 327 ataaratatc atgcaagttt cttgtcctac atatcaataa taagcacttc catggagcaa 960  
 328 aaaaaaaaaa aaaaaaaaaa aaa 983

330 &lt;210&gt; SEQ ID NO: 23

331 &lt;211&gt; LENGTH: 983

332 &lt;212&gt; TYPE: DNA

333 <213> ORGANISM: *Triticum aestivum*

335 &lt;220&gt; FEATURE:

## VERIFICATION SUMMARY

DATE: 06/23/2006

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TIME: 15:51:15

Input Set : A:\271274 - Revised Sequence Listing\_1.DOC

Output Set: N:\CRF4\06232006\J805973A.raw

L:134 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10  
L:164 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12  
L:194 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14  
L:224 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16  
L:254 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18  
L:284 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20